

<b>AWARD/CONTRACT</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)		RATING		PAGE OF PAGES 1   24		
2. CONTRACT (Proc. Inst. Ident.) NO. HR0011-07-C-0079		3. EFFECTIVE DATE 18 Jun 2007		4. REQUISITION/PURCHASE REQUEST/PROJECT NO. W524700				
5. ISSUED BY DARPA CMO (b)(6) ATTN: [REDACTED] 3701 N. FAIRFAX DR. ARLINGTON VA 22203-1714		CODE HR0011		6. ADMINISTERED BY (If other than Item 5) DCMA PHILADELPHIA 700 ROBBINS AVE., BLDG 4-A P.O. BOX 11427 PHILADELPHIA PA 19111-0427		CODE S3915A		
7. NAME AND ADDRESS OF CONTRACTOR (No. street, city, county, state and zip code) SARNOFF CORPORATION CLARKE ARGUE 201 WASHINGTON RD PRINCETON NJ 08540-6449				8. DELIVERY [ ] FOB ORIGIN [X] OTHER (See below)				
				9. DISCOUNT FOR PROMPT PAYMENT Net 30 days				
				10. SUBMIT INVOICES 1 (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN:		ITEM Section G		
CODE DDKS7		FACILITY CODE						
11. SHIP TO/MARK FOR  See Schedule		CODE		12. PAYMENT WILL BE MADE BY DFAS COLUMBUS CENTER NORTH ENTITLEMENT OPERATIONS P.O. BOX 182288 COLUMBUS OH 43218-2288		CODE HQ0337		
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: [ ] 10 U.S.C. 2304(c)( ) [ ] 41 U.S.C. 253(c)( )				14. ACCOUNTING AND APPROPRIATION DATA See Schedule				
15A. ITEM NO.	15B. SUPPLIES/ SERVICES		15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT		
SEE SCHEDULE								
						15G. TOTAL AMOUNT OF CONTRACT \$436,203.00		
16. TABLE OF CONTENTS								
(X) SEC.	DESCRIPTION			PAGE(S)	(X) SEC.	DESCRIPTION		
PART I - THE SCHEDULE					PART II - CONTRACT CLAUSES			
X	A	SOLICITATION/ CONTRACT FORM		1	X	I	CONTRACT CLAUSES	
X	B	SUPPLIES OR SERVICES AND PRICES/ COSTS		2	PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS			
X	C	DESCRIPTION/ SPECS/ WORK STATEMENT		3 - 4	X	J	LIST OF ATTACHMENTS	
X	D	PACKAGING AND MARKING		5	PART IV - REPRESENTATIONS AND INSTRUCTIONS			
X	E	INSPECTION AND ACCEPTANCE		6	K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS		
X	F	DELIVERIES OR PERFORMANCE		7 - 8		L INSTRS, CONDS, AND NOTICES TO OFFERORS		
X	G	CONTRACT ADMINISTRATION DATA		9 - 10		M EVALUATION FACTORS FOR AWARD		
X	H	SPECIAL CONTRACT REQUIREMENTS		11 - 14				
CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE								
17. (X) CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)				18. [ ] AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number				
19A. NAME AND TITLE OF SIGNER (Type or print) ROBERT E HARRIS VICE PRESIDENT, CONTRACTS				20A. NAME AND TITLE OF CONTRACTING OFFICER				
19B. NAME OF CONTRACTOR SARNOFF CORPORATION				20B. UNITED STATES OF AMERICA				
19C. DATE SIGNED 6-20-07		BY [Signature] (Signature of person authorized to sign)		20C. DATE SIGNED 20 JUN 07				

NSN 7540-01-152-8069

PREVIOUS EDITION UNUSABLE

25-107

GPO 1985 O - 469-794

STANDARD FORM 26 (REV. 4-85)

Prescribed by GSA  
FAR (48 CFR) 53.214(a)

## Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	TOTAL EST. COST PLUS FIXED FEE
0001	Mixed Reality Training Study  The Contractor shall accomplish the five tasks annotated in accordance with the Attachment (1) Statement of Work. Data deliverables/reports will be provided in accordance with Sections C and F.	\$410,351.00	\$25,852.00	\$436,203.00
000101	Funding for CLIN 0001 AO No. W924/00	\$0.00	\$0.00	\$0.00
ACRN AA				\$436,203.00

**Section C - Descriptions and Specifications****CLAUSES INCORPORATED BY FULL TEXT****C-1 Scope of Work**

(a) The Contractor shall furnish the necessary personnel, materials, facilities and other services as may be required to perform Contract Line Item Number (CLIN) 0001 in accordance with the Statement of Work, Attachment 1 hereto, and as specified in the Contractor's proposal entitled "Study of On-The-Move Mixed Reality MOUT Training with 3D Awareness", dated 10 April 2007, copies of which are in possession of both parties.

(b) In the event of an inconsistency between the provisions of this contract and the Contractor's proposal, the inconsistency shall be resolved by giving precedence in the following order: (1) the contract, (2) the attachments to the contract, and then (3) the Contractor's proposal.  
(end of clause)

**C-2 Reports and Other Deliverables**

(a) All technical reports delivered by the Contractor in the performance of the contract shall be considered "Technical Data" as defined in Section I contract clauses entitled "Rights in Technical Data - Noncommercial Items" and "Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation." The Government shall receive "unlimited rights" to this technical data, as defined in these clauses.

(b) In addition to those reports required by the Exhibit A, Contract Data Requirements List, the following report(s) must also be submitted as specified below:

**1. FINAL REPORT**

This report, prepared in accordance with DFARS 252.235-7011, shall document the results of the complete effort as set forth in the Statement of Work, Attachment 1 hereto. Title pages shall include a disclaimer worded substantially as follows:

"The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the official policies, either expressly or implied, of the Defense Advanced Research Projects Agency or the U.S. Government."

(1) The Final Technical Report summary shall include:

Task Objectives  
Technical Problems  
General Methodology (i.e., literature review, laboratory experiments, surveys, etc.)  
Technical Results  
Important Findings and Conclusions  
Significant Hardware Development  
Special Comments  
Implications for Further Research

(2) All papers and articles published as a result of DARPA sponsored research shall include a statement reflecting that sponsorship.



(3) Distribution Statement B applies:

"Distribution authorized to U.S. Government agencies only due to Critical Technology and to prevent Premature Dissemination of Information. Other requests for this document shall be referred to DARPA Technical Information Office via email at [tio@darpa.mil](mailto:tio@darpa.mil)."

## **2. ADDITIONAL MISC. DELIVERABLES**

The Contractor shall also deliver those items listed in the Contract Attachment (1) - Statement of Work under the paragraph entitled "Deliverables", as applicable. Briefing materials (hard and softcopy) for all briefings given to the Government shall be provided in the Contractor's format.

(end of clause)

**Section D - Packaging and Marking**

**CLAUSES INCORPORATED BY FULL TEXT**

**D-1      Packaging and Marking**

- (a) All items shall be preserved, packaged, packed and marked in accordance with best commercial practices to meet the packing requirements of the carrier, and to ensure safe delivery at destination.  
(end of clause)

**Section E - Inspection and Acceptance**

**INSPECTION AND ACCEPTANCE TERMS**

Supplies/services will be inspected/accepted at destination by the DARPA Program Manager identified at Section F-3 (d) herein.

**CLAUSES INCORPORATED BY REFERENCE**

52.246-8	Inspection Of Research And Development Cost Reimbursement	MAY 2001
----------	--	----------

## Section F - Deliveries or Performance

## CLAUSES INCORPORATED BY REFERENCE

52.247-34

F.O.B. Destination

NOV 1991

## CLAUSES INCORPORATED BY FULL TEXT

## F-1 Term of Contract

(a) The term of the contract commences on the effective date of the contract and continues through 19 November 2007.

(end of clause)

## F-2 Reports and Other Deliverables

(a) Delivery of all reports and other deliverables shall be made to the addressee specified in F-3 entitled "Report Distribution" in accordance with the following:

Item No.	Description	Due Date (on or before)
0001	Mid-Term Report	See Exhibit A CDRL
0001	Final Report	19 November 2007
0001	Additional Misc. Deliverables	19 November 2007

(end of clause)

## F-3 Report Distribution

## (a) Defense Technical Information Center

(1) Email: TR@dtic.mil  
(one electronic copy of the Final Technical Report, if unclassified)

OR

(2) Attn: DTIC-BCS  
8725 John J. Kingman Road, Suite 0944  
Fort Belvoir, VA 22060-0944  
(two hard copies of the Final Technical Report if unclassified)

(b) DARPA/Library  
3701 North Fairfax Drive  
Arlington, VA 22203-1714  
Email: library@darpa.mil  
(one copy of the Final Technical Report)

(c) DARPA/CMO

Attn: (b)(6)  
3701 North Fairfax Drive  
Arlington, VA 22203-1714  
(one copy each report)

**(d) DARPA/IXO**

Attn: (b)(6)  
3701 North Fairfax Drive  
Arlington, VA 22203-1714  
Email: (POC@darpa.mil)  
(one copy each report)

**(e) DARPA/IXO**

Attn: ADPM  
3701 North Fairfax Drive  
Arlington, VA 22203-1714  
(one copy each report)

(end of clause)

**F-4 Notice Regarding Late Delivery**

(a) In the event the Contractor anticipates difficulty in complying with the contract delivery schedule, the Contractor shall immediately notify the Contracting Officer in writing, giving pertinent details, including the date by which it expects to make delivery; PROVIDED, however, that this date shall be informational only in character and the receipt thereof shall not be construed as a waiver by the Government of any contract delivery schedule, or any rights or remedies provided by law or under this contract.  
(end of clause)



## Section G - Contract Administration Data

## ACCOUNTING AND APPROPRIATION DATA

AA: 9770400 1320 W924 P7X20 2525 DPAC 7 5251 S12136 63766E  
 AMOUNT: \$436,203.00  
 AO: W924/00  
 CIN 00000000000000000000000000000000: \$436,203.00

## CLAUSES INCORPORATED BY FULL TEXT

## G-1 Procuring Office Representative

(a) The Procuring Office Representative is (b)(6) DARPA/CMO 3701 North Fairfax Drive,  
 Arlington, VA 22203-1714, telephone: 571-218-4949, e-mail: (b)(6)@darpa.mil.  
 (end of clause)

## G-2 Electronic Submission of Payment Requests

(a) An "Invoice as 2 in 1" document identified by contract number shall be submitted for payment directly via the Internet to Wide Area Workflow (WAWF) at <https://wawf.eb.mil>. Supporting details for the invoice shall be attached to the WAWF "Invoice as 2 in 1" document.

(1) For the Issue By DoDAAC and Admin DoDAAC fields, enter HR0011.

(2) Leave the Inspect By DoDAAC, Ship From Code DoDAAC and LPO DoDAAC fields blank.

(end of clause)

## G-3 Delegation of Authority for Contract Administration

(a) DCMA Philadelphia (DoDAAC: S3915A), is hereby designated as the Contracting Officer's authorized representative for administering this contract in accordance with current directives.  
 (end of clause)

## G-4 Payment of Cost and Fee

(a) As consideration for the proper performance of work required under this contract, the Contractor shall be paid as follows:

(1) Costs, as provided for under Section I contract clause titled "Allowable Cost and Payment" not to exceed the amount set forth as "Total Estimated Cost" in Section B, and subject further to those Section I clauses entitled "Limitation of Cost" or "Limitation of Funds".

(2) A fixed fee in the amount set forth as "Fixed Fee" in Section B, in accordance with the Section I contract clause entitled "Fixed Fee". The Contractor may bill on each invoice the amount of the fixed fee bearing the same percentage to the total fixed fee as the amount of cost billed bears to the total estimated cost.  
(end of clause)

**Section H - Special Contract Requirements****CLAUSES INCORPORATED BY FULL TEXT****H-1 Contracting Officer**

(a) Notwithstanding any other provision of this contract, the Contracting Officer is the only individual authorized to redirect the effort or in any way amend or modify any of the terms of this contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statement of work, a modification must be issued in writing and signed by the Contracting Officer.

(end of clause)

**H-2 Type of Contract**

(a) This is a Cost-Plus-Fixed-Fee completion contract.

(end of clause)

**H-3 Public Release or Dissemination of Information**

(a) There shall be no dissemination or publication, except within and between the Contractor and any subcontractors, of information developed under this contract or contained in the reports to be furnished pursuant to this contract without prior written approval of the DARPA Technical Information Officer (DARPA/TIO). All technical reports will be given proper review by appropriate authority to determine which Distribution Statement is to be applied prior to the initial distribution of these reports by the Contractor. Papers resulting from unclassified contracted fundamental research are exempt from prepublication controls and this review requirement, pursuant to DoD Instruction 5230.27 dated October 6, 1987.

(b) When submitting material for written approval for open publication as described in subparagraph (a) above, the Contractor must submit a request for public release request to the DARPA TIO and include the following information: 1) Document Information: document title, document author, short plain-language description of technology discussed in the material (approx 30 words), number of pages (or minutes of video) and document type (briefing, report, abstract, article, or paper); 2) Event Information: event type (conference, principle investigator meeting, article or paper), event date, desired date for DARPA's approval; 3) DARPA Sponsor: DARPA Program Manager, DARPA office, and contract number; and 4) Contractor's Information: POC name, e-mail and phone. Allow four weeks for processing; due dates under four weeks require a justification. Unusual electronic file formats may require additional processing time. Requests can be sent either via e-mail to [tio@darpa.mil](mailto:tio@darpa.mil) or via 3701 North Fairfax Drive, Arlington VA 22203-1714, telephone (571) 218-4235. Refer to [www.darpa.mil/tio](http://www.darpa.mil/tio) for information about DARPA's public release process.

(end of clause)

**H-4 Key Personnel**

(a) The Contractor shall notify the Contracting Officer prior to making any change in key personnel. Key personnel are defined as follows:

(b)(6)



(b) The Contractor must demonstrate that the qualifications of the prospective personnel are equal to or better than the qualifications of the personnel being replaced. Notwithstanding any of the foregoing provisions, key personnel shall be furnished unless the Contractor has demonstrated to the satisfaction of the COR that the qualifications of the proposed substitute personnel are equal to or better than the qualifications of the personnel being replaced.  
(end of clause)

#### H-5 Restrictions on Printing

(a) Unless otherwise authorized in writing by the Contracting Officer, reports, data, or other written material produced using funds provided by this contract and submitted hereunder shall be reproduced only by duplicating processes and shall not exceed 5,000 single page reports or a total of 25,000 pages of a multiple-page report. These restrictions do not preclude the writing, editing, preparation of manuscript or reproducible copy of related illustrative materials if required as part of this contract, or incidental printing such as forms or materials necessary to be used by the Contractor to respond to the terms of the contract.  
(end of clause)

#### H-6 Contractor Representations and Certifications

(a) The Contractor's Representations and Certifications dated 8 June 2007 are incorporated herein by reference.  
(end of clause)

#### H-7 Insurance Schedule

(a) The Contractor shall maintain the types of insurance listed in FAR 28.307-2 (a), (b) and (c), with the minimum amounts of liability indicated therein. The types of insurance coverage listed in paragraphs (d) and (e) shall also be maintained when applicable.  
(end of clause)

#### H-8 Travel

(a) Reimbursement for travel-related expenses shall be in accordance with the Contractor's approved travel policy. The Federal Travel Regulations, Joint Travel Regulations (JTR), and Standardized Regulations as stated in FAR 31.205-46 will be used as a guide in determining reasonableness of per diem costs. Costs for travel shall be allowable subject to the provisions of FAR 31.205-46.

(b) In connection with direct charge to the contract of travel-related expenses, the Contractor shall hold travel to the minimum required to meet the objectives of the contract, and substantial deviations from the amount of travel agreed to during contract negotiation shall not be made without the authorization of the Contracting Officer.

When applicable, the Contractor shall notify the COR of proposed travel of an employee beyond that agreed to during negotiations.

(c) Approval of the Contracting Officer shall be obtained in advance for attendance by personnel at training courses, seminars, and other meetings not directly related to contract performance if the costs for the courses, seminars, and other meetings are charged to the contract.



(d) All foreign travel shall be authorized and approved in advance, in writing, by the Contracting Officer. Request for such travel must be submitted to the Contracting Officer at least forty-five (45) days in advance of traveler's anticipated departure date, and shall include traveler's itinerary of United States Flag Air Carriers.  
(end of clause)

#### H-9 Metric System

- (a) The Defense Advanced Research Projects Agency (DARPA) will consider the use of the metric system in all of its activities consistent with operational, economical, technical and safety requirements.
- (b) The metric system will be considered for use in all new designs. When it is deemed not to be in the best interest of the DoD to provide metric design, justification shall be provided.
- (c) Physical and operational interfaces between metric items and U.S. customary items will be designed to assure that interchangeability and interoperability will not be affected.
- (d) Existing designs dimensioned in U.S. customary units will be converted to metric units only if determined to be necessary or advantageous. Unnecessary retrofit of existing systems with new metric components will be avoided where both the new metric and existing units are interchangeable and interoperable. Normally, the system of measurement in which an item is originally designed will be retained for the life of the item.
- (e) During the metric transition phase hybrid metric and U.S. customary designs will be necessary and acceptable. Material components, parts, subassemblies, and semi-fabricated material, which are of adequate or when it is otherwise specifically determined to be in the best interest of the Department of Defense. Bulk materials will be specified and accepted in metric units when it is expedient or economical to do so.
- (f) Technical reports, studies, and position papers, (except those pertaining to items dimensioned in U.S. customary units) will include metric units of measurement in addition to or in lieu of U.S. customary units. With respect to existing contracts, this requirement applies only if such documentation can be obtained without an increase in contract costs.
- (g) Use of the dual dimensions (i.e., both metric and U.S. customary dimensions) on drawings will be avoided unless it is determined in specific instances that such usage will be beneficial. However, the use of tables on the document to translate dimensions from one system of measurement to the other is acceptable.  
(end of clause)

#### H-10 Export Control Clause

Should this project develop beyond fundamental research (basic and applied research ordinarily published and shared broadly within the scientific community) with military or dual-use applications the following apply:

- (a) The contractor shall comply with all U. S. export control laws and regulations, including the International Traffic in Arms Regulations (ITAR), 22 CFR Parts 120 through 130, and the Export Administration Regulations (EAR), 15 CFR Parts 730 through 799, in the performance of this contract. In the absence of available license exemptions/exceptions, the Contractor shall be responsible for obtaining the appropriate licenses or other approvals, if required, for exports of (including deemed exports) hardware, technical data, and software, or for the provision of technical assistance.
- (b) The Contractor shall be responsible for obtaining export licenses, if required, before utilizing foreign persons in the performance of this contract, including instances where the work is to be performed on-site at any Government installation (whether in or outside the United States), where the foreign person will have access to export-controlled technical data or software.



(c) The Contractor shall be responsible for all regulatory record keeping requirements associated with the use of licenses and license exemptions/exceptions.

(d) The Contractor shall be responsible for ensuring that the provisions of this clause apply to its subcontractors.

(end of clause)

## Section I - Contract Clauses

## CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	JUL 2004
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-6	Restrictions On Subcontractor Sales To The Government	SEP 2006
52.203-7	Anti-Kickback Procedures	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	SEP 2005
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	SEP 2006
52.215-15	Pension Adjustments and Asset Reversions	OCT 2004
52.215-17	Waiver of Facilities Capital Cost of Money	OCT 1997
52.215-18	Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other than Pensions	JUL 2005
52.216-7	Allowable Cost And Payment	DEC 2002
52.216-8	Fixed Fee	MAR 1997
52.219-7	Notice of Partial Small Business Set-Aside	JUN 2003
52.219-8	Utilization of Small Business Concerns	MAY 2004
52.222-3	Convict Labor	JUN 2003
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	MAR 2007
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans	SEP 2006
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, and Other Eligible Veterans	SEP 2006
52.222-39	Notification of Employee Rights Concerning Payment of Union Dues or Fees	DEC 2004
52.223-14	Toxic Chemical Release Reporting	AUG 2003
52.225-13	Restrictions on Certain Foreign Purchases	FEB 2006
52.226-1	Utilization Of Indian Organizations And Indian-Owned Economic Enterprises	JUN 2000
52.227-1 Alt I	Authorization And Consent (Jul 1995) - Alternate I	APR 1984
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	AUG 1996
52.228-7	Insurance--Liability To Third Persons	MAR 1996
52.232-9	Limitation On Withholding Of Payments	APR 1984
52.232-20	Limitation Of Cost	APR 1984
52.232-23 Alt I	Assignment of Claims (Jan 1986) - Alternate I	APR 1984
52.232-25	Prompt Payment	OCT 2003
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	OCT 2003
52.233-1	Disputes	JUL 2002
52.233-3 Alt I	Protest After Award (Aug 1996) - Alternate I	JUN 1985
52.242-1	Notice of Intent to Disallow Costs	APR 1984

52.242-4	Certification of Final Indirect Costs	JAN 1997
52.242-13	Bankruptcy	JUL 1995
52.243-2 Alt V	Changes--Cost-Reimbursement (Aug 1987) - Alternate V	APR 1984
52.244-6	Subcontracts for Commercial Items	MAR 2007
52.245-5 Dev	Government Property (Cost-Reimbursement, Time-and-Material, or Labor-Hour Contracts) Deviation	MAY 2004
52.245-9	Use And Charges	AUG 2005
52.249-6 Alt II	Termination (Cost Reimbursement) (May 2004) - Alternate II	SEP 1996
52.249-14	Excusable Delays	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense-Contract-Related Felonies	DEC 2004
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004 Alt A	Central Contractor Registration (52.204-7) Alternate A	NOV 2003
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Terrorist Country	DEC 2006
252.225-7012	Preference For Certain Domestic Commodities	JAN 2007
252.227-7013	Rights in Technical Data--Noncommercial Items	NOV 1995
252.227-7014	Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation	JUN 1995
252.227-7015	Technical Data--Commercial Items	NOV 1995
252.227-7016	Rights in Bid or Proposal Information	JUN 1995
252.227-7019	Validation of Asserted Restrictions--Computer Software	JUN 1995
252.227-7027	Deferred Ordering Of Technical Data Or Computer Software	APR 1988
252.227-7037	Validation of Restrictive Markings on Technical Data	SEP 1999
252.232-7003	Electronic Submission of Payment Requests	MAR 2007
252.232-7010	Levies on Contract Payments	DEC 2006
252.235-7010	Acknowledgment of Support and Disclaimer	MAY 1995
252.235-7011	Final Scientific or Technical Report	NOV 2004
252.242-7004	Material Management And Accounting System	NOV 2005
252.243-7002	Requests for Equitable Adjustment	MAR 1998
252.244-7000	Subcontracts for Commercial Items and Commercial Components (DoD Contracts)	JAN 2007
252.247-7023	Transportation of Supplies by Sea	MAY 2002
252.247-7024	Notification Of Transportation Of Supplies By Sea	MAR 2000

#### CLAUSES INCORPORATED BY FULL TEXT

#### 52.215-19 NOTIFICATION OF OWNERSHIP CHANGES (OCT 1997)

(a) The Contractor shall make the following notifications in writing:

(1) When the Contractor becomes aware that a change in its ownership has occurred, or is certain to occur, that could result in changes in the valuation of its capitalized assets in the accounting records, the Contractor shall notify the Administrative Contracting Officer (ACO) within 30 days.

(2) The Contractor shall also notify the ACO within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership.

(b) The Contractor shall--

(1) Maintain current, accurate, and complete inventory records of assets and their costs;



- (2) Provide the ACO or designated representative ready access to the records upon request;
- (3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives are identified accurately before and after each of the Contractor's ownership changes; and
- (4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Contractor ownership change.

The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(k).

(End of clause)

**52.219-4 NOTICE OF PRICE EVALUATION PREFERENCE FOR HUBZONE SMALL BUSINESS CONCERNS (JUL 2005)**

(a) Definition. HUBZone small business concern, as used in this clause, means a small business concern that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.

(b) Evaluation preference. (1) Offers will be evaluated by adding a factor of 10 percent to the price of all offers, except--

(i) Offers from HUBZone small business concerns that have not waived the evaluation preference; and

(ii) Otherwise successful offers from small business concerns.

(2) The factor of 10 percent shall be applied on a line item basis or to any group of items on which award may be made. Other evaluation factors described in the solicitation shall be applied before application of the factor.

(3) A concern that is both a HUBZone small business concern and a small disadvantaged business concern will receive the benefit of both the HUBZone small business price evaluation preference and the small disadvantaged business price evaluation adjustment (see FAR clause 52.219-23). Each applicable price evaluation preference or adjustment shall be calculated independently against an offeror's base offer.

These individual preference amounts shall be added together to arrive at the total evaluated price for that offer.

(c) Waiver of evaluation preference. A HUBZone small business concern may elect to waive the evaluation preference, in which case the factor will be added to its offer for evaluation purposes. The agreements in paragraph (d) of this clause do not apply if the offeror has waived the evaluation preference.

\_\_\_\_ Offeror elects to waive the evaluation preference.

(d) Agreement. A HUBZone small business concern agrees that in the performance of the contract, in the case of a contract for

(1) Services (except construction), at least 50 percent of the cost of personnel for contract performance will be spent for employees of the concern or employees of other HUBZone small business concerns;

(2) Supplies (other than procurement from a nonmanufacturer of such supplies), at least 50 percent of the cost of manufacturing, excluding the cost of materials, will be performed by the concern or other HUBZone small business concerns;

- (3) General construction, at least 15 percent of the cost of the contract performance incurred for personnel will be spent on the concern's employees or the employees of other HUBZone small business concerns; or
- (4) Construction by special trade contractors, at least 25 percent of the cost of the contract performance incurred for personnel will be spent on the concern's employees or the employees of other HUBZone small business concerns.
- (e) A HUBZone joint venture agrees that in the performance of the contract, the applicable percentage specified in paragraph (d) of this clause will be performed by the HUBZone small business participant or participants.
- (f) A HUBZone small business concern nonmanufacturer agrees to furnish in performing this contract only end items manufactured or produced by HUBZone small business manufacturer concerns. This paragraph does not apply in connection with construction or service contracts.

(End of clause)

#### 52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

- (a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed \$0 or the overtime premium is paid for work --
  - (1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;
  - (2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;
  - (3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or
  - (4) That will result in lower overall costs to the Government.
- (b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall--
  - (1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;
  - (2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;
  - (3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and
  - (4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

\* Insert either "zero" or the dollar amount agreed to during negotiations. The inserted figure does not apply to the exceptions in paragraph (a)(1) through (a)(4) of the clause.

(End of clause)



**52.227-12 PATENT RIGHTS--RETENTION BY THE CONTRACTOR (LONG FORM) (JAN 1997)**

(a) Definitions. "Invention" means any invention or discovery which is or may be patentable or otherwise protectable under title 35 of the United States Code or any novel variety of plant that is or may be protectable under the Plant Variety Protection Act (7 U.S.C. 2321, et seq.).

"Made" when used in relation to any invention means the conception or first actual reduction to practice of such invention.

"Nonprofit organization" means a domestic university or other institution of higher education or an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954 (26 U.S.C. 501(c)) and exempt from taxation under section 501(a) of the Internal Revenue Code (26 U.S.C. 501(a)) or any nonprofit scientific or educational organization qualified under a state nonprofit organization statute.

"Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are, to the extent permitted by law or Government regulations, available to the public on reasonable terms.

"Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of this clause, the size standards for small business concerns involved in Government procurement and subcontracting at 13 CFR 121.3-8 and 13 CFR 121.3-12, respectively, will be used.

"Subject invention" means any invention of the Contractor conceived or first actually reduced to practice in the performance of work under this contract; provided, that in the case of a variety of plant, the date of determination (as defined in section 41(d) of the Plant Variety Protection Act, 7 U.S.C. 2401(d)) must also occur during the period of contract performance.

(b) Allocation of principal rights. The Contractor may elect to retain the entire right, title, and interest throughout the world to each subject invention subject to the provisions of this clause and 35 U.S.C. 203. With respect to any subject invention in which the Contractor elects to retain title, the Federal Government shall have a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world.

(c) Invention disclosure, election of title, and filing of patent applications by Contractor. (1) The Contractor shall disclose each subject invention to the Contracting Officer within 2 months after the inventor discloses it in writing to Contractor personnel responsible for patent matters or within 6 months after the Contractor becomes aware that a subject invention has been made, whichever is earlier. The disclosure to the Contracting Officer shall be in the form of a written report and shall identify the contract under which the invention was made and the inventor(s). It shall be sufficiently complete in technical detail to convey a clear understanding, to the extent known at the time of the disclosure, of the nature, purpose, operation, and physical, chemical, biological, or electrical characteristics of the invention. The disclosure shall also identify any publication, on sale, or public use of the invention and whether a manuscript describing the invention has been submitted for publication and, if so, whether it has been accepted for publication at the time of disclosure. In addition, after disclosure to the Contracting Officer, the Contractor shall promptly notify the Contracting Officer of the acceptance of any manuscript describing the invention for publication or of any on sale or public use planned by the Contractor.

(2) The Contractor shall elect in writing whether or not to retain title to any such invention by notifying the Federal agency at the time of disclosure or within 8 months of disclosure, as to those countries (including the United States) in which the Contractor will retain title; provided, that in any case where publication, on sale, or public use has

initiated the 1-year statutory period wherein valid patent protection can still be obtained in the United States, the period of election of title may be shortened by the agency to a date that is no more than 60 days prior to the end of the statutory period.

(3) The Contractor shall file its initial patent application on an elected invention within 1 year after election or, if earlier, prior to the end of any statutory period wherein valid patent protection can be obtained in the United States after a publication, on sale, or public use. The Contractor shall file patent applications in additional countries (including the European Patent Office and under the Patent Cooperation Treaty) within either 10 months of the corresponding initial patent application or 6 months from the date permission is granted by the Commissioner of Patents and Trademarks to file foreign patent applications where such filing has been prohibited by a Secrecy Order.

(4) Requests for extension of the time for disclosure to the Contracting Officer, election, and filing may, at the discretion of the funding Federal agency, be granted, and will normally be granted unless the Contracting Officer has reason to believe that a particular extension would prejudice the Government's interest.

(d) Conditions when the Government may obtain title. The Contractor shall convey to the Federal agency, upon written request, title to any subject invention--

(1) If the Contractor elects not to retain title to a subject invention;

(2) If the Contractor fails to disclose or elect the subject invention within the times specified in paragraph (c) above (the agency may only request title within 60 days after learning of the Contractor's failure to report or elect within the specified times);

(3) In those countries in which the Contractor fails to file patent applications within the time specified in paragraph (c) above; provided, however, that if the Contractor has filed a patent application in a country after the times specified in paragraph (c) above, but prior to its receipt of the written request of the Federal agency, the Contractor shall continue to retain title in that country; or

(4) In any country in which the Contractor decides not to continue the prosecution of any application for, to pay the maintenance fees on, or defend in reexamination or opposition proceeding on, a patent on a subject invention.

(e) Minimum rights to Contractor. (1) The Contractor shall retain a nonexclusive, royalty-free license throughout the world in each subject invention to which the Government obtains title except if the Contractor fails to disclose the subject invention within the times specified in paragraph (c) above. The Contractor's license extends to its domestic subsidiaries and affiliates, if any, within the corporate structure of which the Contractor is a part and includes the right to grant sublicenses of the same scope to the extent the Contractor was legally obligated to do so at the time the contract was awarded. The license is transferable only with the approval of the funding Federal agency except when transferred to the successor of that part of the Contractor's business to which the invention pertains.

(2) The Contractor's domestic license may be revoked or modified by the funding Federal agency to the extent necessary to achieve expeditious practical application of the subject invention pursuant to an application for an exclusive license submitted in accordance with applicable provisions in the Federal Property Management Regulations and agency licensing regulations (if any). This license shall not be revoked in that field of use or the geographical areas in which the Contractor has achieved practical application and continues to make the benefits of the invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of the funding Federal agency to the extent the Contractor, its licensees, or its domestic subsidiaries or affiliates have failed to achieve practical application in that foreign country.

(3) Before revocation or modification of the license, the funding Federal agency shall furnish the Contractor a written notice of its intention to revoke or modify the license, and the Contractor shall be allowed 30 days (or such other time as may be authorized by the funding Federal agency for good cause shown by the Contractor) after the notice to show cause why the license should not be revoked or modified. The Contractor has the right to appeal, in accordance with applicable agency licensing regulations and 37 CFR 404 concerning the licensing of Government-



owned inventions, any decision concerning the revocation or modification of its license.

(f) Contractor action to protect the Government's interest. (1) The Contractor agrees to execute or to have executed and promptly deliver to the Federal agency all instruments necessary to (i) establish or confirm the rights the Government has throughout the world in those subject inventions to which the Contractor elects to retain title, and (ii) convey title to the Federal agency when requested under paragraph (d) above and subparagraph (n)(2) below, and to enable the Government to obtain patent protection throughout the world in that subject invention.

(2) The Contractor agrees to require, by written agreement, its employees, other than clerical and nontechnical employees, to disclose promptly in writing to personnel identified as responsible for the administration of patent matters and in a format suggested by the Contractor each subject invention made under contract in order that the Contractor can comply with the disclosure provisions of paragraph (c) above, and to execute all papers necessary to file patent applications on subject inventions and to establish the Government's rights in the subject inventions. This disclosure format should require, as a minimum, the information required by subparagraph (c)(1) above. The Contractor shall instruct such employees through employee agreements or other suitable educational programs on the importance of reporting inventions in sufficient time to permit the filing of patent applications prior to U.S. or foreign statutory bars.

(3) The Contractor shall notify the Federal agency of any decision not to continue the prosecution of a patent application, pay maintenance fees, or defend in a reexamination or opposition proceeding on a patent, in any country, not less than 30 days before the expiration of the response period required by the relevant patent office.

(4) The Contractor agrees to include, within the specification of any United States patent application and any patent issuing thereon covering a subject invention, the following statement: "This invention was made with Government support under (identify the contract) awarded by (identify the Federal agency). The Government has certain rights in this invention."

(5) The Contractor shall establish and maintain active and effective procedures to assure that subject inventions are promptly identified and disclosed to Contractor personnel responsible for patent matters within 6 months of conception and/or first actual reduction to practice, whichever occurs first in performance of work under this contract. These procedures shall include the maintenance of laboratory notebooks or equivalent records and other records as are reasonably necessary to document the conception and/or the first actual reduction to practice of subject inventions, and records that show that the procedures for identifying and disclosing the inventions are followed. Upon request, the Contractor shall furnish the Contracting Officer a description of such procedures for evaluation and for determination as to their effectiveness.

(6) The Contractor agrees, when licensing a subject invention, to arrange to avoid royalty charges on acquisitions involving Government funds, including funds derived through Military Assistance Program of the Government or otherwise derived through the Government, to refund any amounts received as royalty charges on the subject invention in acquisitions for, or on behalf of, the Government, and to provide for such refund in any instrument transferring rights in the invention to any party.

(7) The Contractor shall furnish the Contracting Officer the following:

(i) Interim reports every 12 months (or such longer period as may be specified by the Contracting Officer) from the date of the contract, listing subject inventions during that period and stating that all subject inventions have been disclosed or that there are no such inventions.

(ii) A final report, within 3 months after completion of the contracted work, listing all subject inventions or stating that there were no such inventions, and listing all subcontracts at any tier containing a patent rights clause or stating that there were no such subcontracts.

(8) The Contractor shall promptly notify the Contracting Officer in writing upon the award of any subcontract at any tier containing a patent rights clause by identifying the subcontractor, the applicable patent rights clause, the work to

be performed under the subcontract, and the dates of award and estimated completion. Upon request of the Contracting Officer, the Contractor shall furnish a copy of such subcontract, and no more frequently than annually, a listing of the subcontracts that have been awarded.

(9) In the event of a refusal by a prospective subcontractor to accept one of the clauses in subparagraph (g)(1) or (2) below, the Contractor (i) shall promptly submit a written notice to the Contracting Officer setting forth the subcontractor's reasons for such refusal and other pertinent information that may expedite disposition of the matter and (ii) shall not proceed with such subcontracting without the written authorization of the Contracting Officer.

(10) The Contractor shall provide, upon request, the filing date, serial number and title, a copy of the patent application (including an English-language version if filed in a language other than English), and patent number and issue date for any subject invention for which the Contractor has retained title.

(11) Upon request, the Contractor shall furnish the Government an irrevocable power to inspect and make copies of the patent application file.

(g) Subcontracts. (1) The Contractor shall include the clause at 52.227-11 of the Federal Acquisition Regulation (FAR), suitably modified to identify the parties, in all subcontracts, regardless of tier, for experimental, developmental, or research work to be performed by a small business firm or nonprofit organization. The subcontractor shall retain all rights provided for the Contractor in this clause, and the Contractor shall not, as part of the consideration for awarding the subcontract, obtain rights in the subcontractor's subject inventions.

(2) The Contractor shall include this clause (FAR 52.227-12) in all other subcontracts, regardless of tier, for experimental, developmental, or research work.

(3) In the case of subcontracts, at any tier, when the prime award with the Federal agency was a contract (but not a grant or cooperative agreement), the agency, subcontractor, and the Contractor agree that the mutual obligations of the parties created by this clause constitute a contract between the subcontractor and the Federal agency with respect to those matters covered by this clause.

(h) Reporting utilization of subject inventions. The Contractor agrees to submit on request periodic reports no more frequently than annually on the utilization of a subject invention or on efforts at obtaining such utilization that are being made by the Contractor or its licensees or assignees. Such reports shall include information regarding the status of development, date of first commercial sale or use, gross royalties received by the Contractor, and such other data and information as the agency may reasonably specify. The Contractor also agrees to provide additional reports as may be requested by the agency in connection with any march-in proceedings undertaken by the agency in accordance with paragraph (j) of this clause. To the extent data or information supplied under this paragraph is considered by the Contractor, its licensee or assignee to be privileged and confidential and is so marked, the agency agrees that, to the extent permitted by law, it shall not disclose such information to persons outside the Government.

(i) Preference for United States industry. Notwithstanding any other provision of this clause, the Contractor agrees that neither it nor any assignee will grant to any person the exclusive right to use or sell any subject invention in the United States unless such person agrees that any products embodying the subject invention will be manufactured substantially in the United States. However, in individual cases, the requirement for such an agreement may be waived by the Federal agency upon a showing by the Contractor or its assignee that reasonable but unsuccessful efforts have been made to grant licenses on similar terms to potential licensees that would be likely to manufacture substantially in the United States or that under the circumstances domestic manufacture is not commercially feasible.

(j) March-in rights. The Contractor agrees that with respect to any subject invention in which it has acquired title, the Federal agency has the right in accordance with the procedures in FAR 27.304-1(g) to require the Contractor, an assignee, or exclusive licensee of a subject invention to grant a nonexclusive, partially exclusive, or exclusive license in any field of use to a responsible applicant or applicants, upon terms that are reasonable under the circumstances, and if the Contractor, assignee, or exclusive licensee refuses such a request, the Federal agency has the right to grant such a license itself if the Federal agency determines that--



- (1) Such action is necessary because the Contractor or assignee has not taken, or is not expected to take within a reasonable time, effective steps to achieve practical application of the subject invention in such field of use;
- (2) Such action is necessary to alleviate health or safety needs which are not reasonably satisfied by the Contractor, assignee, or their licensees;
- (3) Such action is necessary to meet requirements for public use specified by Federal regulations and such requirements are not reasonably satisfied by the Contractor, assignee, or licensees; or
- (4) Such action is necessary because the agreement required by paragraph (i) of this clause has not been obtained or waived or because a licensee of the exclusive right to use or sell any subject invention in the United States is in breach of such agreement.
- (k) Special provisions for contracts with nonprofit organizations. [Reserved]
- (l) Communications.

**All written notifications/reports required by this clause shall be submitted to the Administrative Contracting Officer (ACO). All required reporting shall be accomplished using the i-Edison.gov reporting website (<https://s-edison.info.nih.gov.iEdison/>).**

- (m) Other inventions. Nothing contained in this clause shall be deemed to grant to the Government any rights with respect to any invention other than a subject invention.
- (n) Examination of records relating to inventions. (1) The Contracting Officer or any authorized representative shall, until 3 years after final payment under this contract, have the right to examine any books (including laboratory notebooks), records, and documents of the Contractor relating to the conception or first reduction to practice of inventions in the same field of technology as the work under this contract to determine whether--
  - (i) Any such inventions are subject inventions;
  - (ii) The Contractor has established and maintains the procedures required by subparagraphs (f)(2) and (f)(3) of this clause; and
  - (iii) The Contractor and its inventors have complied with the procedures.
- (2) If the Contracting Officer determines that an inventor has not disclosed a subject invention to the Contractor in accordance with the procedures required by subparagraph (f)(5) of this clause, the Contracting Officer may, within 60 days after the determination, request title in accordance with subparagraphs (d)(2) and (d)(3) of this clause. However, if the Contractor establishes that the failure to disclose did not result from the Contractor's fault or negligence, the Contracting Officer shall not request title.
- (3) If the Contracting Officer learns of an unreported Contractor invention which the Contracting Officer believes may be a subject invention, the Contractor may be required to disclose the invention to the agency for a determination of ownership rights.
- (4) Any examination of records under this paragraph shall be subject to appropriate conditions to protect the confidentiality of the information involved.
- (o) Withholding of payment (this paragraph does not apply to subcontracts). (1) Any time before final payment under this contract, the Contracting Officer may, in the Government's interest, withhold payment until a reserve not exceeding \$50,000 or 5 percent of the amount of the contract, whichever is less, shall have been set aside if, in the Contracting Officer's opinion, the Contractor fails to--



(i) Establish, maintain, and follow effective procedures for identifying and disclosing subject inventions pursuant to subparagraph (f)(5) above;

(ii) Disclose any subject invention pursuant to subparagraph (c)(1) above;

(iii) Deliver acceptable interim reports pursuant to subdivision (f)(7)(i) above; or

(iv) Provide the information regarding subcontracts pursuant to subparagraph (f)(8) of this clause.

(2) Such reserve or balance shall be withheld until the Contracting Officer has determined that the Contractor has rectified whatever deficiencies exist and has delivered all reports, disclosures, and other information required by this clause.

(3) Final payment under this contract shall not be made before the Contractor delivers to the Contracting Officer all disclosures of subject inventions required by subparagraph (c)(1) above, an acceptable final report pursuant to subdivision (f)(7)(ii) above, and all past due confirmatory instruments.

(4) The Contracting Officer may decrease or increase the sums withheld up to the maximum authorized above. No amount shall be withheld under this paragraph while the amount specified by this paragraph is being withheld under other provisions of the contract. The withholding of any amount or the subsequent payment thereof shall not be construed as a waiver of any Government right.

(End of clause)

#### 52.233-4 APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM (OCT 2004)

United States law will apply to resolve any claim of breach of this contract.

(End of clause)

#### 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://farsite.hill.af.mil>

(End of clause)

#### 52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

(End of clause)

**252.204-7006 BILLING INSTRUCTIONS (OCT 2005)**

When submitting a request for payment, the Contractor shall--

- (a) Identify the contract line item(s) on the payment request that reasonably reflect contract work performance; and
- (b) Separately identify a payment amount for each contract line item included in the payment request.

(End of clause)

**Section J - List of Documents, Exhibits and Other Attachments**

<b>DOCUMENT TYPE</b>	<b>DESCRIPTION</b>	<b>PAGES</b>	<b>DATE</b>
<b>Exhibit A</b>	<b>Contract Data Requirements List (CDRL) – A001 (TFIMS Reporting)</b>	<b>8</b>	<b>14 June 2007</b>
<b>Attachment 1</b>	<b>Contractor SOW -  “Study of On-The-Move Mixed Reality MOUT Training with 3D Awareness”</b>	<b>2</b>	<b>10 April 2007</b>

## **Exhibit A: CDRL A001**

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.							
A. CONTRACT LINE ITEM NO. 0001		B. EXHIBIT A		C. CATEGORY TDP      TM-      OTHER MISC			
D. SYSTEM/ITEM Study of On-The-Move Mixed Reality MOUT Training with 3D Awareness		E. CONTRACT/PR NO. HR0011-07-C-0079		F. CONTRACTOR Sarnoff Corporation			
1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM RESEARCH AND DEVELOPMENT (R&D) PROJECT SUMMARY			3. SUBTITLE T-FIMS QUARTERLY AND MONTHLY REPORTING			
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-81612A		5. CONTRACT REFERENCE C-2		6. REQUIRING OFFICE IXO			
7. DD250 REQ SEE BLOCK 16	9. DIST STATEMENT REQUIRED B (See H-3)	10. FREQUENCY SEE BLOCK 16	12. DATE OF FIRST SUBMISSION SEE BLOCK 16	14. DISTRIBUTION			
8. APP CODE N		11. AS OF DATE 0	13. DATE OF SUBSEQUENT SUBMISSION N/A	b. COPIES			
16. REMARKS REFERENCE BLOCK 2, RESEARCH AND DEVELOPMENT PROJECT SUMMARY, AND BLOCK 4, DI-MISC-81612A. FORMAT. <ul style="list-style-type: none"> <li>• GENERAL FORMAT INSTRUCTIONS: COMPLY WITH ALL INSTRUCTIONS DELINEATED ON THE DARPA T-FIMS WEB SITE (<a href="http://www.tfims.darpa.mil">http://www.tfims.darpa.mil</a>).</li> <li>• SPECIAL INSTRUCTIONS. UPLOAD THE FOLLOWING ITEMS TO THE DARPA T-FIMS WEB SITE (<a href="http://www.tfims.darpa.mil">http://www.tfims.darpa.mil</a>).               <ul style="list-style-type: none"> <li>○ PUBLICATIONS THIS PERIOD (3.1.7) IN ADOBE ACROBAT (PDF) FILE FORMAT.</li> <li>○ UPDATED SCHEDULE AND MILESTONES (1.2.2.4) IN EITHER POWERPOINT (PPT), JPG, TIFF, OR PDF FILE FORMAT.</li> <li>○ QUAD-CHART (1.2.2.7) IN MICROSOFT POWERPOINT (PPT) FILE FORMAT.</li> </ul> </li> </ul> ELECTRONIC SUBMISSION. THE CONTRACTOR SHALL ACCESS THE DARPA T-FIMS WEB SITE ( <a href="http://www.tfims.darpa.mil">http://www.tfims.darpa.mil</a> ) AND ELECTRONICALLY SUBMIT ALL REQUIRED REPORTING INFORMATION FOLLOWING THE SPECIFICATIONS OUTLINED BELOW.  POST-AWARD INITIAL SUBMISSION REQUIREMENT. <ul style="list-style-type: none"> <li>• SUBMIT THE PERFORMING ORGANIZATION CONTACTS (1.1.2) WITHIN FIVE (5) CALENDAR DAYS AFTER CONTRACT AWARD TO T-FIMS HELP BY E-MAIL (Tfims-Help@darpa.mil) FOR AWARDEE USER ACCOUNT ACTIVATION.</li> </ul> CONTINUED ON THE NEXT PAGE.				a. ADDRESSEE	Draft	Final	
						Reg	Repro
G. PREPARED BY		H. DATE		I. APPROVED BY		J. DATE	



CONTRACT DATA REQUIREMENTS LIST, DD FORM 1423 CONTINUATION SHEET

CLIN 0001

Exhibit A

HR0011-07-C-0079

PR No.

DATA ITEM No. A001

BLOCK 16, continued,

REPORTING TERMINOLOGY - QUARTERLY REPORTING PERIODS.

- JUL-SEP: COVERS PERFORMANCE FROM 1 JULY - 30 SEPTEMBER
- OCT-DEC: COVERS PERFORMANCE FROM 1 OCTOBER - 31 DECEMBER
- JAN-MAR: COVERS PERFORMANCE FROM 1 JANUARY - 31 MARCH
- APR-JUN: COVERS PERFORMANCE FROM 1 APRIL - 30 JUNE

QUARTERLY SUBMISSION REQUIREMENTS.

- FREQUENCY (BLOCK 10). INPUT FOUR (4) TIMES YEARLY, ONCE FOR EACH OF THE QUARTERLY REPORTING PERIODS CITED ABOVE, FOR THE DURATION OF THE CONTRACT.
- DATE OF FIRST SUBMISSION (BLOCK 12). SUBMIT WITHIN FIFTEEN (15) CALENDAR DAYS AFTER THE END OF MOST RECENT QUARTERLY REPORTING PERIOD
  - FOR REPORTING PERIOD JUL-SEP, DUE DATE IS OCTOBER 15
  - FOR REPORTING PERIOD OCT-DEC, DUE DATE IS JANUARY 15
  - FOR REPORTING PERIOD JAN-MAR, DUE DATE IS APRIL 15
  - FOR REPORTING PERIOD APR-JUN, DUE DATE IS JULY 15
- QUARTERLY CONTENT REQUIREMENTS.
  - MINIMAL INITIAL QUARTERLY SUBMISSION. IF THE AWARD OCCURS WITHIN THIRTY (30) CALENDAR DAYS PRIOR TO THE END OF THE QUARTERLY REPORTING PERIOD, SUBMIT PROJECT DESCRIPTION (1.2.2) ONLY.
  - FIRST QUARTERLY SUBMITTAL WILL CONTAIN RESPONSES TO ALL PROJECT INFORMATION (1), WITH THE EXCEPTION OF THE QUAD CHART (1.2.2.7); THE FUNDING REPORT (2), WITH THE EXCEPTION OF THE PROJECTED FUNDING INCREMENT (2.5); AND THE TECHNICAL REPORT (3).
  - FOR ALL OTHER QUARTERLY SUBMISSIONS, SUBMIT OR UPDATE THE ADMINISTRATIVE INFORMATION (1.1), INVOICES THIS PERIOD (2.2), PLANNED INCURRED EXPENSES (2.4), AND ALL THE INFORMATION UNDER THE TECHNICAL REPORT (3.)
  - IN ADDITION, SUBMIT THE FOLLOWING FOR THE APR-JUN QUARTERLY REPORTS.
    - QUAD CHART (1.2.2.7).
    - PROJECTED FUNDING INCREMENT (2.5).
    - IN ADDITION TO REPORTING THE PLANNED ACTIVITIES FOR THE NEXT MONTH (3.2.1.), INCLUDE A TOP-LEVEL BULLET LIST OF THE PLANNED ACTIVITIES FOR THE TIME PERIOD BEGINNING ON 1 AUGUST OF THE CURRENT YEAR AND ENDING ON 31 DECEMBER OF THE NEXT YEAR.

MONTHLY SUBMISSION REQUIREMENTS.

- FREQUENCY (BLOCK 10). INPUT TWELVE (12) TIMES YEARLY (MONTHLY) FOR THE DURATION OF THE CONTRACT.
- DATE OF FIRST SUBMISSION (BLOCK 12). SUBMIT WITHIN FIFTEEN (15) CALENDAR DAYS AFTER THE END OF THE FIRST CALENDAR MONTH BUT NO SOONER THAN THIRTY (30) DAYS AFTER AWARD.
- MONTHLY CONTENT REQUIREMENT.
  - FOR THE DURATION OF THE CONTRACT SUBMIT INCURRED EXPENSES THIS PERIOD (2.1) AS A LUMP SUM TOTAL ONLY.
  - FOR THE DURATION OF THE CONTRACT SUBMIT INVOICES THIS PERIOD (2.2) AS INVOICES ARE SUBMITTED TO DFAS FOR PAYMENT.

CLASSIFICATION. THE ENTIRE REPORT SHALL BE UNCLASSIFIED.

PROCURING CONTRACTING OFFICER (PCO), REFERENCE SF 26, BLOCK 5.

ADMINISTRATIVE CONTRACTING OFFICER (ACO) REFERENCE SF 26, BLOCK 6.

DD FORM 250 SHALL BE SUBMITTED WITH THE FINAL TECHNICAL REPORT (VIA WAWF)

## DATA ITEM DESCRIPTION

Title: RESEARCH AND DEVELOPMENT (R&D) PROJECT SUMMARY

Number: DI-MISC-81612A

Approval Date: 20031215

AMSC Number: D7442

Limitation:

DTIC Applicable: N/A

GIDEP Applicable: N/A

Preparing Activity: OSD-SO (FOR DARPA/IXO)

Applicable Forms: N/A

Use, Relationships:

The R&D Project Summary reports key project administrative, programmatic, technical and financial data. The R&D Project Summary includes administrative and funding information, research objectives, innovative approaches, accomplishments, plans, technology transitions, technology transfers, and issues. The technical and financial information contained in the R&D Project Summary enables comprehensive assessment of project goals, progress and status. This Data Item Description (DID) contains format and content preparation instructions for the data product generated by specific and discrete task requirements as delineated in the contract statement of work (SOW).

Requirements:

### 1. Project Information.

#### 1.1. Administrative Information.

1.1.1. Subcontractors. Verify each subcontractor.

1.1.2. Performing Organization Contacts.

1.1.2.1. Principal Investigator(s) Contact. Verify the name, organization, business address, business phone, business fax, and e-mail address of each principal investigator.

1.1.2.2. Administrative Contact. Verify the name, organization, business address, business phone, business fax, and e-mail address of the administrative point of contact.

1.1.2.3. Financial Data Contact. Verify the name, organization, business address, business phone, business fax, and e-mail address of the contact for financial data.

1.1.2.4. Programmatic/Technical Reporter Contact. If the Principal Investigator is not the reporter of the programmatic/technical data verify the name, organization, business address, business phone, business fax, and e-mail address of the programmatic/technical reporter point of contact.

1.2. Programmatic Information.

1.2.1. Project Uniform Resource Locator (URL). Provide the project URL.

1.2.2. Project Description.

1.2.2.1. Research Objectives.

1.2.2.2. Problem Description. Provide a concise description of the problem area addressed by this research project.

1.2.2.2.1. Research Goals. Identify specific research goals of this project. Identify and quantify expected performance improvements from this research. Identify new capabilities enabled by this research. Identify and discuss salient features and capabilities of developmental hardware and software prototypes.

1.2.2.2.2. Expected Impact. Describe the expected impact of the research project, if successful, to the problem area.

1.2.2.3. Technical Approach.

1.2.2.3.1. Detailed Description of Technical Approach. Provide a detailed description of the technical approach that will be used in this project to achieve the research goals. Specifically identify and discuss innovative aspects of the technical approach.

---

~~1.2.2.3.2. Comparison with Current Technology. Describe state-of-the-art approaches and the limitations within the context of the problem area addressed by this research.~~

1.2.2.4. Schedule and Milestones.

1.2.2.4.1. Schedule Graphic. Provide a graphic representation of the project schedule including detail down to the individual task effort level. Show all project milestones. Use absolute time designations for all dates.

1.2.2.4.2. Detailed Individual Task Descriptions. Provide detailed task descriptions for each individual task in the schedule graphic.



- 1.2.2.5. **Deliverables Description.** List and provide a detailed description for each planned deliverable. Specify receiving organization(s) and expected delivery dates for each deliverable.
- 1.2.2.6. **Technology Transition and Technology Transfer Targets and Plans.** Discuss plans for technology transition and transfer. Identify specific military and commercial organizations for technology transition or transfer. Specify anticipated dates for transition or transfer.
- 1.2.2.7. **Quad Chart.** Provide a Quad Chart as one (1) landscape-oriented page divided into four (4) quadrants and suitable for use in briefings using the following format:

Project Title	
<b>GRAPHIC:</b>  A visually compelling graphic that conveys the key technological idea(s) or the expected impact of the research.	<b>NEW IDEAS:</b>  List at least 3 new technical ideas embodied by the research.
<b>IMPACT:</b>  At least 3 quantitative statements discussing how this research can revolutionize an area of importance to the Department of Defense.	<b>SCHEDULE:</b>  At least 2 scheduled events or project milestones per year, depicted on a horizontal timeline with at least Quarter resolution (3 month increments) starting with the Quarter that contains the project start and ending with the Quarter that contains the scheduled project end. Quarters begin on 1 October, 1 January, 1 April, and 1 July. Use absolute time designations for all dates.

## 2. **Funding Report.**

- 2.1. **Incurred Expenses this Period.** Specify the expenses incurred during this reporting period (direct and indirect costs on the awardee's accounting system including labor, overhead, G&A, equipment purchases, travel, material, and any subcontract charges known by the prime).
- 2.2. **Invoices this Period.** Specify the invoice date, number, and amount of each invoice submitted during this reporting.
- 2.3. **Date Incurred Expenses will equal Obligated Funding.** Specify the anticipated dates that incurred expenses will equal 75% and 100% of the obligated funding, respectively.

2.4. Planned Incurred Expenses. Specify the total expenses planned to be incurred for each of the next three (3) quarters.

2.5. Projected Funding Increment. Specify the funding increment required for the period beginning with "Date Incurred Expenses will equal 100% of Obligated Funding" and ending with 31 December of the next calendar year. If contract ends prior to 31 December of the next calendar year, specify the funding increment required up to the contract end date. Obligated funding increments are additions to currently available funds, not additions to the total contract value.

2.6. Issues or Concerns. Summarize any funding, technical, programmatic and other issues or concerns as well as recommended actions for Government consideration. Indicate if an anticipated funding increment has not been received.

### 3. Technical Report.

#### 3.1. Project Progress.

3.1.1. Progress Against Planned Objectives. Update the status of the specific objectives identified in the last reporting period as "Specific Objectives for Next Period". For each objective, indicate if the objective was or was not accomplished. For each objective not accomplished, detail the current status of the objective.

3.1.2. Technical Accomplishments this Period. Describe the technical accomplishments made during this reporting period.

3.1.3. Improvements to Prototypes this Period. Provide a detailed, quantitative description of significant new features, capabilities and performance enhancements to hardware and software prototypes made during this period.

3.1.4. Significant Changes to Technical Approach to Date. Identify and provide a detailed description of and rationale for significant changes to the technical approach since the start of the research project.

3.1.5. Deliverables this Period. Report the deliverables (excluding Technology Transition and Transfer covered under 3.1.6.) submitted during this reporting period. List the Deliverable Name, Type of Deliverable (e.g. hardware or software item, demonstration, milestone, design study or other documentation), and Date of Submission. List the Contract Line or Data Item Number (CLIN or DIN), when applicable. Specify the name, organization, business phone, fax number, and e-mail address of a point of contact for the organization(s) that received the deliverable.



3.1.6. Technology Transition and Transfer this Period.

3.1.6.1. Technology Transition and Transfer Description. List and describe the features and performance capabilities for each technology transitioned or transferred this period.

3.1.6.2. Technology Transition and Transfer List. For each technology transitioned or transferred this period, identify the specific military, commercial, or other transition or transfer organization(s) and the application context.

3.1.6.3. Technology Transition and Transfer Contacts. For each technology transitioned or transferred this period, specify the name, organization, business address, business phone, business fax, and e-mail address of a cognizant point of contact for the organization(s) that received the transitioned or transferred technology.

3.1.7. Publications this Period. Provide an electronic copy of each publication sponsored fully or in part by this contract during the reporting period. For each publication, specify the:

- (1) Title
- (2) Author(s)
- (3) Publication date
- (4) Publication venue (e.g. journal, conference or magazine name)
- (5) Publication keywords

3.1.8. Meetings and Presentations this Period. List all meetings (conferences, workshops, demonstrations, and other coordination meetings) participated in during the reporting period that were sponsored fully or in part by this contract. For each meeting, specify the:

- (1) Meeting Name
- (2) Meeting Purpose
- (3) Meeting Start and End Dates
- (4) Meeting Location (place and name of facility)
- (5) Meeting Attendees from this project
- (6) Presentations Made

3.1.9. Issues or Concerns. Summarize any funding, technical, programmatic, or other issues or concerns as well as recommended actions for Government consideration. Indicate if an anticipated funding increment has not been received.

3.2. Project Plans.

3.2.1. Planned Activities. Describe the planned activities for the next reporting period. Discuss the risks and payoffs corresponding to the planned activities. Include a discussion of planned experiments, demonstrations, presentations, and technical papers.

3.2.2. Specific Objectives for Next Period. Report the significant technical and programmatic objectives planned to be completed during the next reporting period. These are dynamic objectives driven by the progress of the project and not necessarily long-term milestones. Report specific and measurable objectives, rather than simple declarations of continued or sustained effort. For each objective, provide:

- (1) Objective Name
- (2) Objective Type.
- (3) Objective Description. Provide a description of the objective in terms of a specific performance capability to be achieved and in relation to project milestones.
- (4) Impact. State the significance to this project or related projects if the objective is or is not met.

END OF DI-MISC-81612A

**Summary Statement of Work****Task 1: Develop preliminary system design**

In Task 1 Sarnoff will develop the overall system design for augmented reality Warfighter training system. This will include the development of the key functional blocks (a) for Offline Site Pre-instrumentation, (b) MOUT control station and (c) Warfighter Worn Systems.

***Deliverable: Design Document and Functional Architecture Design***

**Task 2: Evaluate usability constraints & Performance requirements for Warfighter system**

Sarnoff will develop the Warfighter worn prototype test-bed for experimentation and data collection. We will use this system to evaluate

- Effects of latency in display and synthetic object insertion on usability of the system.
- Requirements for achievable/acceptable jitter and stability of inserted synthetics with on-the-move war fighters.
- Effects of Field of View and resolution of the display and sensor coverage on the usability of the system.

***Deliverables: (1) Usability study& requirements report (2) Demonstration of the prototype system where static synthetic objects are inserted while the Warfighter is moving.***

**Task 3: Feasibility study of key design blocks**

As part of Task 3 Sarnoff will evaluate

- Performance variations of accurate war fighter & weapons pose estimation
- Pose estimation and occlusion estimation accuracy with differing site model resolutions.
- Feasibility of weapon pose estimation using combination of optical and IMU sensors
- Accuracy and reliability of dynamic depth estimation, ranging and synthetic object insertion.
- Display resolution and performance requirements for real-time rendering of mixed reality environment and synthetic character insertion.

***Deliverable: Proof of concept study of key components.***

**Task 4: Develop hardware specifications for compact wearable helmet system**

As part of this task Sarnoff will

- Study communication bandwidth, storage requirements of the compact system.
- Evaluate how key functional blocks can be mapped onto a feasible hardware platform.
- Feasibility of having a full functional compact system that have reasonable power requirements.

***Deliverable: Compact helmet system design characteristics and feasibility study.***



**Task 5: Develop requirements for Insertion of Avatars based on live instrumented expert players.**

As part of this task, Sarnoff will study the following:

- What are the band width requirements for puppeteers to interact with live humans?
- What technologies are needed to facilitate puppeteers rapidly changing roles?
- What level of resolution of avatars is necessary for immersion?

***Deliverable: Requirements report for insertion of avatars based on live instrumented expert players.***

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE U		PAGE OF PAGES 1   2	
2. AMENDMENT/MODIFICATION NO. P00001		3. EFFECTIVE DATE 21-Jun-2007		4. REQUISITION/PURCHASE REQ. NO. W82400		5. PROJECT NO. (If applicable)	
6. ISSUED BY DARPA CMO ATTN: STEPHEN C DAVIS 3701 N. FAIRFAX DR. ARLINGTON VA 22203-1714		CODE HF0011		7. ADMINISTERED BY (If other than item 6) DCMA PHILADELPHIA 700 ROBBINS AVE., BLDG 4-A P.O. BOX 11427 PHILADELPHIA PA 19111-0427		CODE S3915A	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) SARNOFF CORPORATION CLARKE ARGUE 201 WASHINGTON RD PRINCETON NJ 08540-6449				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HF0011-07-C-0079			
				X 10B. DATED (SEE ITEM 13) 18-Jun-2007			
CODE ODKS7		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
X B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: b6alasca07832 The purpose of this modification is to correct an error in the period of performance in the original Contract. Contractor's email, dated 20 Jun 2007, is hereby incorporated by reference. See page 2.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				(b)(6) (print)			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16C. DATE SIGNED			
(Signature of person authorized to sign)		(b)(6)		(b)(6)		21-Jun-2007	
		(Signature of Contracting Officer)					

## SECTION SF 30 BLOCK 14 CONTINUATION PAGE

## SUMMARY OF CHANGES

## 1. SECTION F - DELIVERIES OR PERFORMANCE

The following have been modified as highlighted in bold:

## F-1 Term of Contract

- (a) The term of the contract commences on the effective date of the contract and continues through 19 **December 2007**.

(end of clause)

## F-2 Reports and Other Deliverables

- (a) Delivery of all reports and other deliverables shall be made to the addressee specified in F-3 entitled "Report Distribution" in accordance with the following:

Item No.	Description	Due Date (on or before)
0001	Mid-Term Report	See Exhibit A CDRL
0001	Final Report	19 <b>December 2007</b>
0001	Additional Misc. Deliverables	19 <b>December 2007</b>

(end of clause)

2. Except as modified above, the terms and conditions of Contract No. HR0011-07-C-0079 shall remain unchanged and in full force and effect.

(End of Summary of Changes)



<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE <b>U</b>		PAGE OF PAGES <b>1</b>   <b>2</b>	
2. AMENDMENT/MODIFICATION NO. <b>P00002</b>		3. EFFECTIVE DATE <b>24-Sep-2007</b>		4. REQUISITION/PURCHASE REQ. NO. <b>W824/00</b>		5. PROJECT NO. (If applicable)	
6. ISSUED BY DARPA CMO ATTN: STEPHEN C DAVIS 3701 N. FAIRFAX DR. ARLINGTON VA 22203-1714		CODE <b>HR0011</b>		7. ADMINISTERED BY (If other than item 6) DCMA PHILADELPHIA 700 ROBBINS AVE, BLDG 4-A P.O. BOX 11427 PHILADELPHIA PA 19111-0427		CODE <b>S3915A</b>	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) SARNOFF CORPORATION CLARKE ARGUE 201 WASHINGTON RD PRINCETON NJ 08540-6449				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. <b>HR0011-07-C-0079</b>			
				X 10B. DATED (SEE ITEM 13) <b>18-Jun-2007</b>			
CODE <b>ODKS7</b>		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
<b>13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
X B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: <b>bfalasca071121</b> The purpose of this modification is to change Section G-2 of the Contract. See Page 2.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				(b)(6)			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				(b)(6)		25-Sep-2007	
				(Signature of Contracting Officer)			

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

**SUMMARY OF CHANGES**

**1. SECTION G - CONTRACT ADMINISTRATION DATA**

The following have been modified as highlighted in bold:

**G-2 Electronic Submission of Payment Requests**

(a) A "Cost Voucher" document identified by contract number shall be submitted for payment directly via the Internet to Wide Area Workflow (WAWF) at <https://wawf.eb.mil>. Supporting details for the cost voucher shall be attached to the WAWF "Cost Voucher" document.

(1) For the Issue By DoDAAC and Admin DoDAAC fields, enter HR0011.

(2) For the DCAA Auditor DoDAAC fields enter S3915A.

(3) Leave the LPO DoDAAC field blank.


(b) Final cost vouchers shall be submitted for review and approval to DCAA:

**DCMA Philadelphia  
DoDAAC: S3915A  
700 Robbins Avenue, BLDG. 4-A  
P.O. Box 11427  
Philadelphia, PA 19111-0427**

(end of clause)

**2. Except as modified above, the terms and conditions of Contract No. HR0011-07-C-0079 shall remain unchanged and in full force and effect.**

(End of Summary of Changes)

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE <b>U</b>		PAGE OF PAGES <b>1   2</b>	
2. AMENDMENT/MODIFICATION NO. P00003		3. EFFECTIVE DATE 19-Dec-2007		4. REQUISITION/PURCHASE REQ. NO. W924/00		5. PROJECT NO.(If applicable)	
6. ISSUED BY DARPA CMO ATTN: STEPHEN C DAVIS 3701 N. FAIRFAX DR. ARLINGTON VA 22203-1714		CODE HR0011		7. ADMINISTERED BY (If other than item 6) DCMA PHILADELPHIA 700 ROBBINS AVE., BLDG 4-A P.O. BOX 11427 PHILADELPHIA PA 19111-0427		CODE S3915A	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) SARNOFF CORPORATION CLARKE ARGUE 201 WASHINGTON RD PRINCETON NJ 08540-8449				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HR0011-07-C-0079			
				X 10B. DATED (SEE ITEM 13) 18-Jun-2007			
CODE ODKS7		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: the "Changes" Clause.							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: bfasca08225 The purpose of this modification is to extend the period of performance at no additional cost to the contract (per Contractor's email dated 18 December 2007). This modification does not result in a change to the current Cost-Plus-Fixed-Fee (CPFF) value of this contract. See Page 2.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print) Robert E. Harris Vice President, Contracts				16A. NAME AND TITLE OF CONTRACTING OFFICER (b)(6)			
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)		15C. DATE SIGNED 19 Dec 2007		16B. UNITED STATES OF AMERICA (b)(6)		16C. DATE SIGNED 19 DEC 07	

EXCEPTION TO SF 30  
APPROVED BY OIRM 11-84

30-10000

STANDARD FORM 30 (Rev. 10-83)  
Prescribed by GSA  
FAR (48 CFR) 53.243



## SECTION SF 30 BLOCK 14 CONTINUATION PAGE

## SUMMARY OF CHANGES

## 1. SECTION F - DELIVERIES OR PERFORMANCE

The following have been modified as highlighted in bold:

## F-1 Term of Contract

(a) The term of the contract commences on the effective date of the contract and continues through **31 January 2008**.

(end of clause)

## F-2 Reports and Other Deliverables

(a) Delivery of all reports and other deliverables shall be made to the addressee specified in F-3 entitled "Report Distribution" in accordance with the following:

Item No.	Description	Due Date (on or before)
0001	Mid-Term Report	See Exhibit A CDRL
0001	Final Report	<b>31 January 2008</b>
0001	Additional Misc. Deliverables	<b>31 January 2008</b>

(end of clause)

2. Except as modified above, the terms and conditions of Contract No. HR0011-07-C-0079 shall remain unchanged and in full force and effect.

(End of Summary of Changes)